

Claims

1. Hydroxalapatite metal composite material obtained by
 - (a) producing a mixture of powdery hydroxylapatite and powdery metal;
 - (b) prepressing of the mixture obtained in step (a) to a green compact and
 - (c) sintering of the green compact obtained in step (b) at a pressure of 1,4 to 7,7 GPa and a temperature of 500 to 900 °C.
2. Hydroxalapatite metal composite material according to claim 1, characterized in that the metal is a precious metal or a precious metal mixture.
3. Hydroxalapatite metal composite material according to claim 2, characterized in that the precious metal is selected from silver or gold.
4. Hydroxalapatite metal composite material according to claim 1, characterized in that the metal is titanium.
5. Method for producing a hydroxalapatite metal composite material comprising the steps
 - (a) producing a mixture of powdery hydroxylapatite and powdery metal;

(b) prepressing of the mixture obtained in step (a) to a green compact and

(c) sintering of the green compact obtained in step (b) at a pressure of 1,4 to 7,7 GPa and a temperature of 500 to 900 °C.

6. Method according to claim 5, characterized in that the green compact is sintered in steps (c) one to three minutes.
7. Use of a hydroxalapatite metal composite material according to any of the claims 1 to 5 as implant.
8. Use according to claim 7, characterized in that the implant is a dental implant.
9. Use according to claim 7, characterized in that the implant is a bone implant.